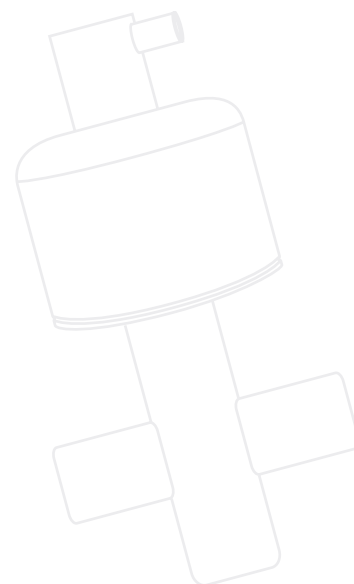




IC200 evo SERIES: 2 CIRCUIT up to 6 COMPRESSOR UNIT CONTROLLERS with EEV MANAGEMENT

IC200 evo is the iCHILL evolution series of controllers, dedicated to the **chiller and heat pump units**. Compactness, extreme flexibility, driver control for the **electronic expansion valves**, and advanced functions such as free cooling and sanitary hot water production are only some of the main elements that make the series complete and suitable for the majority of plants. Controlled units can be **single or dual circuit up to 6 compressors** such as: **air/air, air/water, water/water, motor-condensing, geothermal heat pumps and dryers**.

- Management of scroll, screw and inverter compressors
- Compressor rotation control (also from start/hour number)
- Data logger (alarm type, date, hours, machine status)
- Pump-down function (stop and start)
- Capacity function of machine power during critical functioning conditions such as high or low condensing pressure
- Forced defrost during critical conditions
- Combined defrost temperature/pressure
- Sanitary hot water production
- Solar panel management
- Dynamic set point
- Start and stop by time bands
- Second set point (by time bands or digital input)
- PWM/4÷20mA/0÷10V output for condensing control
- Easy programming through HOT KEY or PC (WIZMATE PROG TOOL KIT)
- RS485 and/or TTL (convertible in RS485) serial output with ModBUS protocol
- Quick tab connectors on all models
- LAN output for I/O expansion modules or EEV driver connection



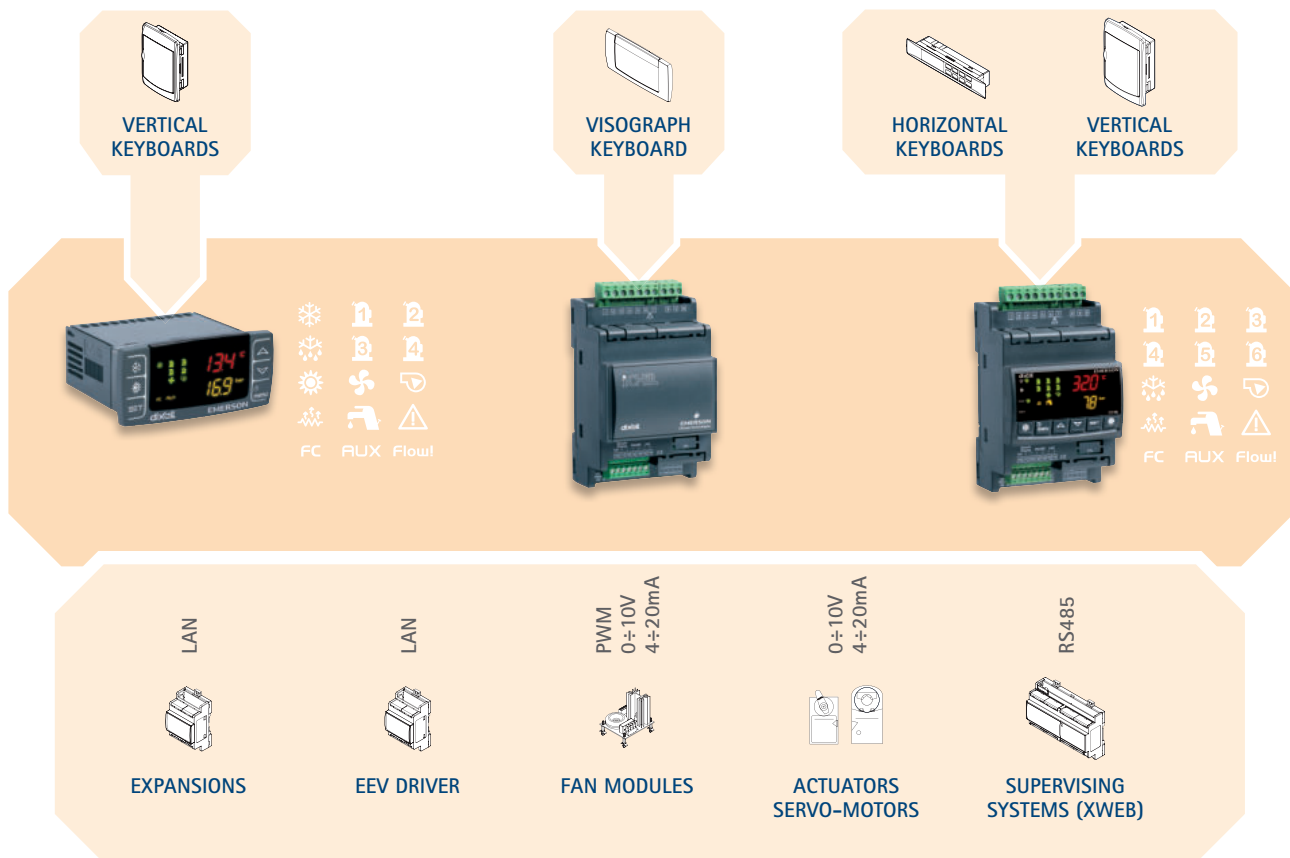
COMPLETE INTERFACE and HIGH CONNECTIVITY

The **IC200 evo** family is available in the **CX version with display** and in **4 DIN Rail version with or without display** (LED).

The **dual display and the icons** for the machine status visualization, present on models with LED interface, ensure chiller/heat pump (compressor status, water heat pumps, fans, machine working mode) functioning. The **LCD graphic display** (Visograph) suitable for models without built-in display, give a more complete interface, adding functioning status in-full, menù, used probes, alarms descriptions, and more.



The **high connectivity** that marks these controllers, simplify communication with the most important devices of the HVAC world such as drivers for the electronic expansion valve management, modules for fans speed control, monitoring systems, and more.



TYPE of MACHINE



IC200CX

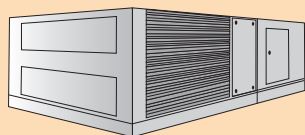
- 1 circuit – 4 compressors
- 2 circuits – 2 compressors per circuit
- 2 circuits – 1 screw compressor per circuit
- 2 circuits – 1 inverter compressor per circuit



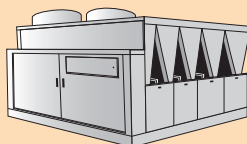
IC200D

- 1 circuit – 6 compressors
- 2 circuits – 3 compressors per circuit
- 2 circuits – 1 screw compressor per circuit
- 2 circuits – 1 inverter compressor per circuit

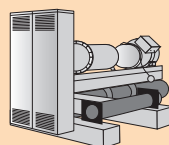
The **IC200 evo** family of controllers is able to easily manage units proper of the HVAC world using a simple and powerful hardware/software platform.



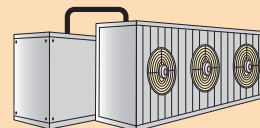
ROOF-TOP AIR/AIR



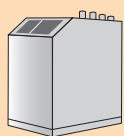
AIR/WATER



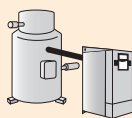
WATER/WATER



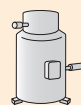
MOTOR-CONDENSING



GEOTHERMAL
HEAT PUMPS



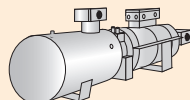
INVERTER COMPRESSORS
(up to 2)



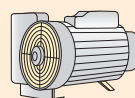
SCROLL COMPRESSORS
(up to 6)



DRYERS



SCREW COMPRESSORS
(up to 2)



INVERTER WATER
PUMP



RTC



Alarm Logger
(up to 100)



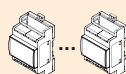
EEV
DRIVER

ModBUS
Slave



SUPERVISING
SYSTEMS
(XWEB)

LAN



CONTROLLERS
(up to 5)



LOCAL PC
(parameter
configuration)

0÷10V
4÷20mA



ACTUATORS
SERVO-MOTORS

PWM
0÷10V
4÷20mA



FAN
MODULES

ModBUS
Master



ROOM PROBE
(temperature/humidity)

2 CIRCUIT up to 6 COMPRESSOR UNIT CONTROLLERS

IC200 evo

IC205D	Controllers for chillers and heat pumps with 5 relay outputs (available also without display)
IC206CX	Controllers for chillers and heat pumps (up to 4 compressors) with 6 relay outputs
IC207D	Controllers for chillers and heat pumps with 7 relay outputs (available also without display)
IC208CX	Controllers for chillers and heat pumps (up to 4 compressors) with 8 relay outputs
ICX207D	Expansion module with 7 relay outputs



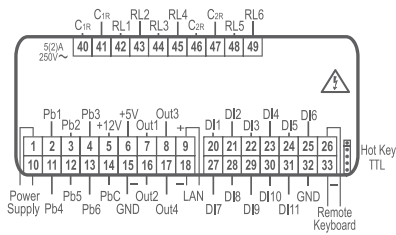
CX: 32x74mm



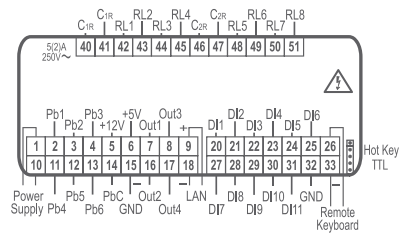
D: 4 DIN Rail

FEATURES	IC205D		IC206CX	IC207D		IC208CX	ICX207D
First display: n° digits	± 4 d.p.	no display	± 4 d.p.	± 4 d.p.	no display	± 4 d.p.	no display
Second display: n° digits	± 4 d.p.		± 4 d.p.	± 4 d.p.		± 4 d.p.	
Power supply	12, 24Vac/dc	12, 24Vac/dc	12, 24Vac/dc	12, 24Vac/dc	12, 24Vac/dc	12, 24Vac/dc	12, 24Vac/dc
Probe inputs							
NTC/PTC	5 config	5 config	4 config	5 config	5 config	4 config	5 config
NTC/PTC/4÷20mA/0÷5V	3 config	3 config	2 config	3 config	3 config	2 config	3 config
Digital inputs							
Free voltage	9 config	9 config	11 config	9 config	9 config	11 config	9 config
Relay outputs							
5A	5 config	5 config	6 config	7 config	7 config	8 config	7 config
Other outputs							
Analogs	2xPWM 0÷10V 4÷20mA 1x0÷10V 4÷20mA	2xPWM 0÷10V 4÷20mA 1x0÷10V 4÷20mA	2xPWM 0÷10V 2x0÷10V	2xPWM 0÷10V 4÷20mA 1x0÷10V 4÷20mA	2xPWM 0÷10V 4÷20mA 1x0÷10V 4÷20mA	2xPWM 0÷10V 2x0÷10V	2xPWM 0÷10V 4÷20mA 1x0÷10V 4÷20mA
LAN	pres	pres	pres	pres	pres	pres	pres
RS485	pres	pres		pres	pres		
TTL/Hot Key 64/Prog Tool Kit	pres	pres	pres	pres	pres	pres	pres
Other							
Remote keyboard	1xTI620 2xVI622	VGI820	2xVICX620	1xTI620 2xVI622	VGI820	2xVICX620	
Buzzer	pres	pres	pres	pres	pres	pres	
Real time clock	opt	opt	opt	opt	opt	opt	
Connection kit	DWDE30-KIT	DWDE30-KIT	CWCXA15-KIT, CWCXA30-KIT	DWDE30-KIT	DWDE30-KIT	CWCXB15-KIT, CWCXB30-KIT	DWDE30-KIT
Expansion module	ICX207D	ICX207D	ICX207D	ICX207D	ICX207D	ICX207D	

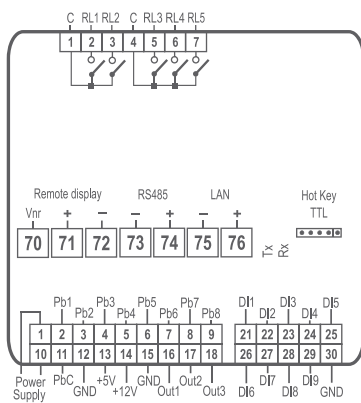
IC206CX



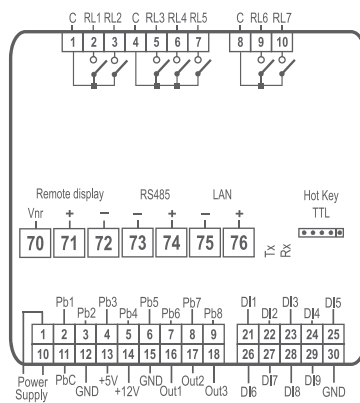
IC208CX



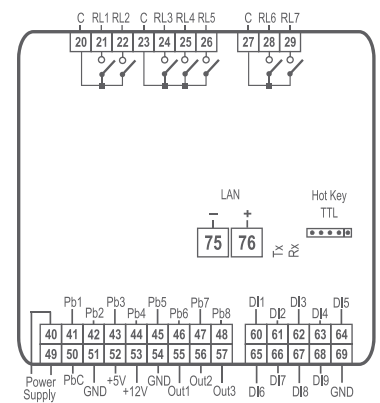
IC205D



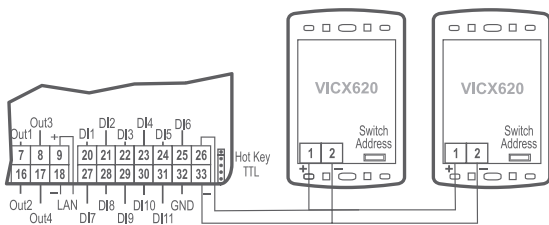
IC207D



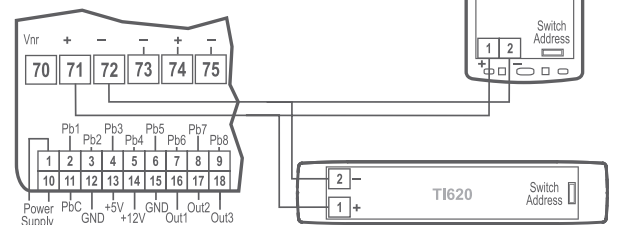
ICX207D



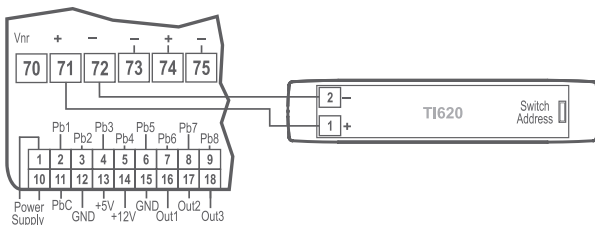
IC200CX + LED keyboards (vertical)



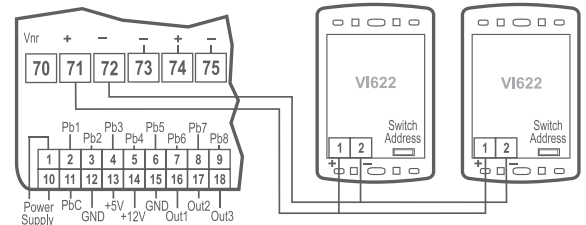
IC200D with display + LED keyboards (vertical + horizontal)



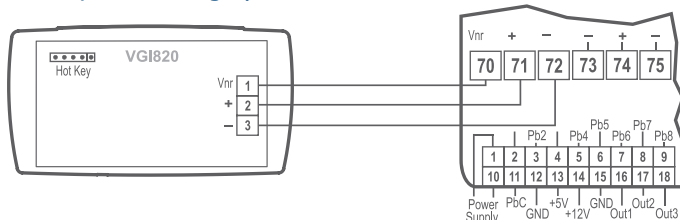
IC200D with display + LED keyboard (horizontal)



IC200D with display + LED keyboards (vertical + vertical)



IC200D without display + LCD keyboard (visograph)



TECHNICAL DATA

Housing	self extinguishing ABS
Format	CX: frontal 32x74mm; depth 59,5mm D: frontal 110x70mm; depth 59,5mm
Display	models with display: 4 digits red LED + 4 digits yellow LED + icons
Mounting	CX: panel mounting in a 29x71mm cut-out D: DIN Rail or wall mounting through integrated brackets
Front protection	CX: IP65
Connections	disconnectable connectors
Power supply	12Vac/dc -10% ÷ +15%, 24Vac/dc ±10% 50/60Hz
Power absorption	10VA max
Relay outputs	SPDT 5(2)A, 250Vac
Analog output	CX: 2xPWM/0÷10V 2x0÷10V D: 2xPWM/0÷10V/4÷20mA 1x0÷10V/4÷20mA
Data storing	non-volatile memory (EEPROM)
Operating temperature	-10÷55°C (14÷131°F)
Storage temperature	-30÷85°C (-22÷185°F)
Relative humidity	20÷85% (non condensing)
Measuring and regulation range	pressure probe: 0÷50bar (0÷725PSI) NTC probe: -50÷110°C (-58÷230°F) PTC probe: -50÷150°C (-58÷302°F)
Resolution	0,1°C or 1°F or 0,1bar or 1PSI
Accuracy (at ambient temperature)	± 0.7°C ± 1 digit

HOW to ORDER

IC200CX

I	C	2	0		C	X	-	A	1	C	0	0
---	---	---	---	--	---	---	---	---	---	---	---	---

A

C

Power supply

RTC

0 = 12Vac/dc

0 = No

1 = 24Vac/dc

1 = Yes

IC200D

I	C	2	0		D	-	A	B	C	0	0
---	---	---	---	--	---	---	---	---	---	---	---

A

B

C

Power supply

Display

RTC

0 = 12Vac/dc

0 = No

0 = No

1 = 24Vac/dc

1 = Yes

1 = Yes

ICX207D

I	C	X	2	0	7	D	-	A	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---

A

Power supply

0 = 12Vac/dc

1 = 24Vac/dc